PATENT ABSTRACTS OF JAPAN

(11)Publication number:

10-265773

(43)Date of publication of application: 06.10.1998

(51)Int.Cl.

C09K 11/06

(21)Application number: 09-069911

(71)Applicant: TOYO INK MFG CO LTD

(22)Date of filing:

24.03.1997

(72)Inventor: ENOKIDA TOSHIO

ONIKUBO SHIYUNICHI TAMANO MICHIKO

OKUTSU SATOSHI

(54) POSITIVE HOLE INJECTION MATERIAL FOR ORGANIC ELECTROLUMINESCENCE ELEMENT AND ORGANIC ELECTROLUMINESCENCE ELEMENT USING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide the subject material having excellent positive hole injection ability, excellent adhesivensess with a metal and an organic compound in forming a thin film and high durability and usable as a flat light source or an indication device. SOLUTION: The objective material is expressed by the formula [R1 to R20 are each H, a halogen, a (substituted) alkyl, a (substituted) alkoxy, a (substituted) thioalkoxy, etc.]. The compound of the formula is synthesized by e.g. charging a polar solvent, a halogenoamine compound, 5−8 times mol of a substituted aromatic amine compound and a catalyst such as an alkali metal atom or a metal compound in a flask and reacting the compounds at ≥200° C for 5−50 hrs. Preferably, a layer containing the material is used as a luminescent layer comprising a layer or plural layers of organic compound thin films between a pair of electrodes, in a case of obtaining an organic electroluminuescence element.

Like and the first the transfer of the American terror and the first terror and the American terror an